

Oil Sample Analysis Report

U. S. EPA Region VII

Case Number E21702

Marine Safety Laboratory

Case Number 21-031



U.S. Department of
Homeland Security

**United States
Coast Guard**



Manager
U.S. Coast Guard
Marine Safety Laboratory

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16450
28 Apr 2021

U. S. Environmental Protection Agency
Attn: On-Scene Coordinator
11201 Renner Blvd
Lenexa, KS 66219

Dear On-Scene Coordinator:

The laboratory analysis of this case has been completed and our report is forwarded. The technical data supporting the report (spectrograms and chromatograms) have been archived at our facility and are available upon request. We will maintain the oil samples in refrigerated storage pending final case disposition.

Questions concerning this report or the analytical methods used should be directed to the Supervisor of Analysis.


K. ECHOLS

Encl: (1) MSL Report 21-031

**United States Coast Guard
Marine Safety Laboratory
Oil Sample Analysis Report
21-031**

Requestor: U. S. EPA Region VII

Unit Case/Activity Number: E21702

Received: 14-Apr-21

Via: Federal Express 8060 8804 0160

Number Of Samples: 2

Lab ID for Spills: 2

Lab ID for Sources: 1

Lab ID for Background: n/a

Analysis Methods:

- ☒ GAS CHROMATOGRAPHY (GC)
- ☒ GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS)
- ☐ INFRARED SPECTROSCOPY (IR)

Laboratory's Conclusion (as explained below): NON-MATCH

RESULTS:

1. Sample 21-031-2 was specified to be representative of spilled oil. Analysis indicates this sample contains crude oil.
2. Suspected source sample 21-031-1 contains slightly weathered crude oil with characteristics somewhat similar to those of spill sample 21-031-2. Important similarities suggest a relationship. However, not all differences noted are attributable to weathering.

CONCLUSIONS:

1. Suspected source sample 21-031-1 and spill sample 21-031-2 are not derived from a common source of petroleum oil. The data suggest sample 21-031-1 is related to, but not the direct source of, spill sample 21-031-2.

SUPERVISOR OF ANALYSIS

K. ECHOLS



DATE 28-Apr-21

**United States Coast Guard
Marine Safety Laboratory**

**Oil Spill Identification Analysis
Cost Recovery Documentation**

Laboratory Case Number: 21-031

Requestor: U. S. EPA Region VII

Unit Case Number: E21702

Number of Samples: 3

Cost Per Sample Prepared: \$20.00

Total Costs of Sample Preparation: \$60.00

Number of Analyses: 8

Cost Per Sample Analyzed: \$86.00

Total Costs for Analysis: \$688.00

TOTAL COSTS: \$748.00

This documentation is provided for purposes of Phase IV - Documentation and
Cost Recovery under the National Oil and Hazardous Substances Pollution
Contingency Plan (40 CFR Part 300)

Signature:



Date: 28 Apr 2021

**United States Coast Guard
Marine Safety Laboratory Sample
Check-In Log**

MSL Case/Activity Number: 21-031

Requestor: U. S. EPA Region VII

Unit Case Number: E21702

Federal Project Number: E21702

Delivery Method: Federal Express

Received Date: 14 Apr 21

Delivery Number: 8060 8804 0160

Priority: No

Rush: No

Comparison: No

Lab ID 21-031	Sample Descriptions from Sample Jars		Spill	Source
1	TNK-01	TANK SAMPLE 4/3/21 1325	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	CRK-01	CREEK SAMPLE 4/3/21 1310	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3			<input type="checkbox"/>	<input type="checkbox"/>
4			<input type="checkbox"/>	<input type="checkbox"/>
5			<input type="checkbox"/>	<input type="checkbox"/>
6			<input type="checkbox"/>	<input type="checkbox"/>
7			<input type="checkbox"/>	<input type="checkbox"/>
8			<input type="checkbox"/>	<input type="checkbox"/>
9			<input type="checkbox"/>	<input type="checkbox"/>
10			<input type="checkbox"/>	<input type="checkbox"/>

Remarks: SAMPLE DESCRIPTIONS AND "SPILL/SOURCE" DESIGNATION TAKEN FROM THE CHAIN OF CUSTODY.

Samples checked in by: MSTC RICHARD FORTE

Date: 14 Apr 21

Sample Custodian: MSTI LINDSAY LOGRECO

Date: 16 Apr 21

Supervisor of Analysis: K. ECHOLS

Date: 28 Apr 21